

FORM PTO-1449 (Modified)

ATTY. DOC. NO.
20.2756

SERIAL NO.

LIST OF INFORMATION PROVIDED
BY APPLICANT
(Use several sheets if necessary)

APPLICANT: Andrew Kurkjian et al

FILING DATE:

GROUP

11/26/01
09/994199
JCS80 U.S. PTO

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Patentee
JS	AA	6,223,822	05/01/01	Jones
JS	AB	5,627,749	05/06/97	Waterman, et al.
	AC			
	AD			
	AE			
	AF			
	AG			
	AH			
	AI			

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Translation Yes No	
	AL	WO 01/63094	08/30/01	PCT		
	AM					
	AN					
	AO					

OTHER INFORMATION PROVIDED (AUTHOR, TITLE, DATE, PLACE OF PUBLICATION, PERTINENT PAGES, ETC.):

JS	AR	Metal Samples/Cortest by Metal Samples/Cortest Instrument Systems, A Division of Alabama Specialty Products, Inc., undated.
JS	AS	Metal Samples by Metal Samples Company, A Division of Alabama Specialty Products, Inc.
	AT	XXXXXXXXXX

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DATE CONSIDERED

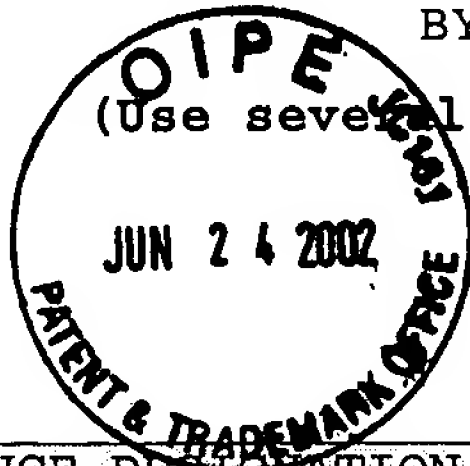
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APPLICANT:
Andrew Kurkjian, et alFILING DATE:
11/26/2001

GROUP

3672

Part of Paper #1

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Patentee
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FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Translation Yes No	
<i>[Signature]</i>	AM	GB 2 359 631 A	08/29/01	Great Britain		
<i>[Signature]</i>	AN	WO 99/00575	01/07/99	PCT		

OTHER INFORMATION PROVIDED (AUTHOR, TITLE, DATE, PLACE OF PUBLICATION, PERTINENT PAGES, ETC.)

[Signature] AP Search Report for GB 0129405.7 dated May 24, 2002.

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Jennifer A. O'Connell

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4/7/03

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APPLICANT:
Andrew Kurkjian et al.FILING DATE: 11/26/2001
GROUP 3672

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Patentee
AB	3,780,575	12/25/73	Urbanosky
AC	3,859,851	01/14/75	Urbanosky

FOREIGN PATENT DOCUMENTS

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			Yes	No
AD	GB 1 495 284 A	12/14/77	Great Britain	
AE	GB 2 344 365 B	01/03/01	Great Britain	

OTHER INFORMATION PROVIDED (AUTHOR, TITLE, DATE, PLACE OF PUBLICATION, PERTINENT PAGES, ETC.)

AF	Hart et al., A Disposable Amperometric Gas Sensor for Sulphur-Containing Compounds Based on a Chemically Modified Screen Printed Carbon Electrode Coated with a Hydrogel, Analytica Chimica Acta, 342, 1997, pp. 199-206.
AG	Garrett, R.L., A New Field Method for the Quantitative Determination of Sulfides in Water-Base Drilling Fluids, Journal of Petroleum Technology, Sept. 1977, pp. 1195-1202.
AH	Eckert, W. et al., A New Liquid-Junction Free Probe For the In Situ Determination of pH, pH ₂ S and Redox Values, Wat. Res. Vol. 24, No. 11, 1990, pp. 1341-1346.
AI	Volkan, Murvet et al., A Novel Sorbent Tube for Ambient Hydrogen Sulfide Determination, Talanta 47, 1998, pp. 585-593.
AJ	Suleimenov, O.M. et al., A Spectrophotometric Study of Hydrogen Sulphide Ionisation in Aqueous Solutions to 350°, Geochimica et Cosmochimica Acta Vol. 61, No. 24, 1997, pp. 5187-5198.
AK	Hadden, David M., A System for Continuous On-Site Measurement of Sulfides in Water-Base Drilling Muds, Society of Petroleum Engineers 6664, Tyler, Texas, November 1977, pp. 81-92.
AL	Jeroschewski, P. et al., An Amperometric Microsensor for the Determination of H ₂ S in Aquatic Environments, Analytical Chemistry, Vol. 68, No. 24, December 15, 1996, pp. 4351-4357.

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APPLICANT:
Andrew Kurkjian et al.FILING DATE:
11/26/2001GROUP
3672

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Patentee
	BA	4,154,659	05/15/79	Zetter

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Translation Yes No	
	BB					

OTHER INFORMATION PROVIDED (AUTHOR, TITLE, DATE, PLACE OF PUBLICATION, PERTINENT PAGES, ETC.)

	BC	Ramstad, Tore et al., Analysis of Hydrogen Sulfide Gas from a Pharmaceutical Drug Formulation by Cryofocused Headspace Gas Chromatography, Analyst, Dec. 1995, Vol. 120, pp. 2775-2780.
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	BF	Devai, I. et al., Changes in Reduced Gaseous Sulfur Compounds Collected in Glass Gas Sampling Bulbs, Analytical Letters, 27(12), 1994, pp. 2403-2411.
	BG	Brunner, U. et al., Chromatographic Determination of Phosphine (PH ₃) and Hydrogen Sulfide (H ₂ S) in the Headspace of Anaerobic Bacterial Enrichments Using Flame Photometric Detection, Chromatographia Vol. 40, No. 7/8, April 1995, pp. 399-403.
	BH	Bethea, Robert M. et al., Comparison of Hydrogen Sulfide Analysis Techniques, Journal of the Air Pollution Control Association, Vol. 23, No. 8, Aug. 1973, pp. 710-713.
	BI	Atta, Nada F. et al., Conducting Polymer Ion Sensor Electrodes - III. Potentiometric Sulfide Ion Selective Electrode, Talanta 47 (1998) pp. 987-999.

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REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Patentee
	CA	4,678,756	07/07/87	Parks

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Translation Yes No	
	CB					

OTHER INFORMATION PROVIDED (AUTHOR, TITLE, DATE, PLACE OF PUBLICATION, PERTINENT PAGES, ETC.)

	CC	Tamaki, Jun et al., CuO-SnO ₂ Element for Highly Sensitive and Selective Detection of H ₂ S, Sensors and Actuators B, 9, 1992, pp. 197-203.
	CD	Sberveglieri, G. et al., Detection of sub-ppm H ₂ S Concentrations by Means of SnO ₂ (Pt) Thin Films, Grown by the RGTO Technique, Sensors and Actuators B. 15-16, 1993, pp. 86-89.
	CE	Knoery et al., Determination of Carbonyl Sulfide and Hydrogen Sulfide Species in Natural Waters Using Specialized Collection Procedures and Gas Chromatography with Flame Photometric Detection, Analytical Chemistry, Vol. 65, No. 8, Apr. 15, 1993, pp. 976-982.
	CF	Cutter, Gregory A. et al., Determination of Dissolved Sulfide and Sedimentary Sulfur Speciation Using Gas Chromatography-Photoionization Detection, Analytical Chemistry, Vol. 59, No. 5, March 1, 1987, pp. 717-721.
	CG	Opekar, Frantisek et al., Determination of Gaseous Hydrogen Sulfide by Cathodic Stripping Voltammetry After Preconcentration on a Silver Metalized Porous Membrane Electrode, Analytical Chemistry, Vol. 56, No. 8, July 1984, pp. 1206-1209.
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REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Patentee
	DA 4,994,671	02/19/91	Safinya et al.

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DB			

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	DC	Francom, Donna et al., Determination of Low Level Sulfides in Environmental Waters by Automated Gas Dialysis/Methylene Blue Colorimetry, Analytical Letters 22 (11&12), 1989, pp. 2587-2600.
	DD	Font, Joaquim, Determination of Sulfide in the Leather Industry by Capillary Electrophoresis, Journal of Chromatography A, 740, 1996, pp. 125-132.
	DE	Nagashima, K. et al., Determination of Trace Amounts of Sulfide in Human Serum by High-Performance Liquid Chromatography with Fluorometric Detection After Derivatization with 2-Amino-5-N, N-Diethylaminotoluene and Iron (III), Journal of Liquid Chromatography, 18(3), 1995, pp. 515-526.
	DF	Hu, Xiaoya et al., Determination of Trace-Levels of Sulfide by High-Sensitivity Potentiometry with a Carbon Paste Electrode, Analytical Communications, Sept. 1996, Vol. 33, pp. 297-298.
	DG	Brouwer, Henry et al., Diffusion Method for the Determination of Acid-Volatile Sulfides (AVS) in Sediment, Environmental Toxicology and Chemistry, Vol. 13, No. 8, pp. 1273-1275.
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	DI	Schiavon, Gilberto, Electrochemical Detection of Trace Hydrogen Sulfide in Gaseous Samples by Porous Silver Electrodes Supported on Ion-Exchange Membranes (Solid Polymer Electrolytes), Analytical Chemistry, Vol. 67, No. 2, Jan. 15, 1995, pp. 318-323.

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REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Patentee
	EA	5,289,875	03/01/94	Stokley et al.

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Translation Yes No
	EB				

OTHER INFORMATION PROVIDED (AUTHOR, TITLE, DATE, PLACE OF PUBLICATION, PERTINENT PAGES, ETC.)

	EC	Burke, N.E. et al., Extended Analysis of Live Reservoir Oils by Gas Chromatography, Society of Petroleum Engineers 21003, Feb. 20-22, 1991, pp. 79-87.
	ED	Choi, Martin M.F. et al., Fluorimetric Optode Membrane for Sulfide Detection, Analyst, July 1998, Vol. 123, pp. 1631-1634.
	EE	Cardoso, Arnaldo et al., Fluorimetric Fiber Optic Drop Sensor for Atmospheric Hydrogen Sulfide, Talanta 44 (1997), pp. 1099-1106.
	EF	Jeroschewski, Paul et al., Galvanic Sensor for Determination of Hydrogen Sulfide, Electroanalysis, 6, 1994, pp. 769-772.
	EG	Jeroschewski, Paul et al., Galvanic Sensor for the Determination of Hydrogen Sulphide/Sulphide in Aqueous Media, Fresenius Journal of Analytical Chemistry, 346, 1993, pp. 930-933.
	EH	Vitenberg et al., Gas Chromatographic Determination of Trace Amounts of Sulfur Compounds in Industrial Effluents, Analytical Chemistry, Vol. 49, No. 1, Jan. 1977, pp. 128-133.

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REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Patentee
	FA	5,859,430	01/12/99	Mullins et al.

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Translation Yes No	
	FB					

OTHER INFORMATION PROVIDED (AUTHOR, TITLE, DATE, PLACE OF PUBLICATION, PERTINENT PAGES, ETC.)

	FC	Orr, Wilson L. et al., Geochemistry of Sulfur in Petroleum Systems, ACS Symposium Series 429, American Chemical Society, Washington, D.C. 1990, pp. 2-29.
	FD	Weldon, V. et al., H ₂ S and CO ₂ Gas Sensing Using DFB Laser Diodes Emitting at 1.57 μ m, Sensors and Actuators B 29, 1995, pp. 101-107.
	FE	Mochida, Tadashi et al., Highly Sensitive and Selective H ₂ S Gas Sensor From R.F. Sputtered SnO ₂ Thin Film, Sensors and Actuators B 24-25, 1995, pp. 433-437.
	FF	Eroglu, Ahmet E. et al., Hydrogen Sulfide Determination by Solid Surface Luminescence, Fresenius J. Anal. Chem., 1996, 355, pp. 667-671.
	FG	Smits, A.R. et al., In-Situ Optical Fluid Analysis as an Aid to Wireline Formation Sampling, SPE Formation Evaluation, 10, 1995, pp. 91-98.
	FH	Shanthi, K. et al., Method for Sampling and Analysis of Hydrogen Sulfide, Analyst, May 1996, Vol. 121, pp. 647-650.
	FI	Kurosawa, H. et al., Microbial Sensor for Selective Determination of Sulphide, Appl. Microbiol. Biotechnol., 41, 1994, pp. 556-559.

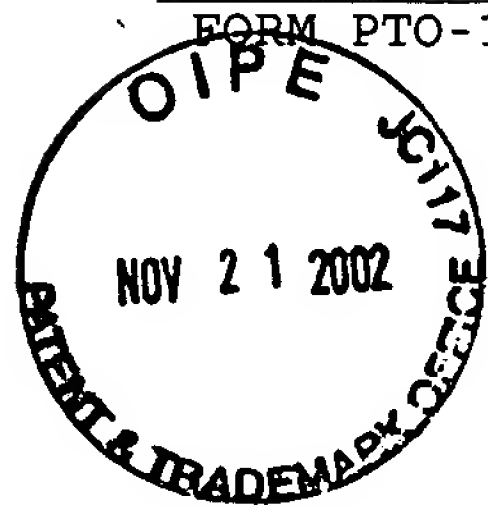
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	GA	5,635,631	06/03/97	Yesudas et al.

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	GC	Revsbech, Niels Peter et al., Microelectrode Studies of the Photosynthesis and O ₂ , H ₂ S and pH Profiles of a Microbial Mat, Limnol. Oceanogr., 28(6), 1983, pp. 1062-1074.
	GD	Kalpakci, Bayram et al., Mitigation of Reservoir Souring - Decision Process, Society of Petroleum Engineers 28947, San Antonio, Texas, Feb. 14-17, 1995, pp. 29-40.
	GE	Badry, Rob et al., New Wireline Formation Tester Techniques and Applications, SPWLA 34 th Annual Logging Symposium, June 13-16, 1993, pp. 1-16.
	GF	Kuban, Vlastimil et al., Nitroprusside and Methylene Blue Methods for Silicone Membrane Differentiated Flow Injection Determination of Sulfide in Water and Wastewater, Anal. Chem. 1992, 64, pp. 36-43.
	GG	Carlson, M.R. et al., Obtaining PVT Data For Very Sour Retrograde Condensate Gas and Volatile Oil Reservoirs: A Multi-Disciplinary Approach, Society of Petroleum Engineers 35653, pp. 691-706.
	GH	Spaziani, Michelle A. et al., On-line Determination of Sulfide by the 'Methylene Blue Method' with Diode-Laser-Based Fluorescence Detection, Analyst, Dec. 1997, Vol. 122, pp. 1555-1557.
	GI	Narayanaswamy, R. et al., Optosensing of Hydrogen Sulphide Through Paper Impregnated with Lead Acetate, Fresenius Z Anal. Chem., 1988, 329, pp. 789-792.

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	HA	5,529,841	06/25/96	Neihof

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Translation	
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	HB					

OTHER INFORMATION PROVIDED (AUTHOR, TITLE, DATE, PLACE OF PUBLICATION, PERTINENT PAGES, ETC.)

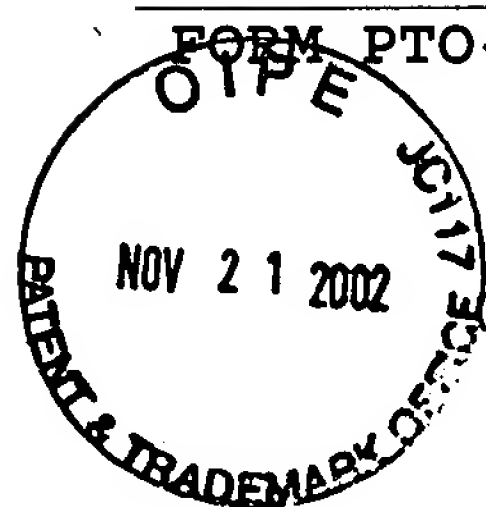
	HC	Stern, S.A. et al., Permeability of Silicone Polymers to Ammonia and Hydrogen Sulfide, Journal of Applied Polymer Science, Vol. 38, pp. 2131-2147.
	HD	Quinn, R. et al., Polyelectrolyte Membranes for Acid Gas Separations, Journal of Membrane Science 131, 1997, pp. 49-60.
	HE	Kirchnerova, J. et al., Potentiometric Gaseous Sulfur Sensor Based on Silver Beta-Alumina Solid Electrolyte, Solid State Ionics 91, 1996, pp. 257-264.
	HF	Ma, Yi Long et al., Potentiometric Selective Determination of Hydrogen Sulfide by an Electropolymerized Membrane Electrode Based on Binaphthyl-20-crown-6, Analytica Chimica Acta 289, 1994, pp. 21-26.
	HG	Dobenik, D. et al., Preparation of a Sulphide Ion-Selective Microelectrode with Chemical Pretreatment of Silver Wire in Hg(II) Solution, Fresenius' Journal of Anal. Chem., 1990, 337, pp. 369-371.
	HH	Kolb et al., Principles of Headspace Analysis, Static Headspace-Gas Chromatography, Theory and Practice, Wiley-VCH, 1997, pp. 1-11.
	HI	American Petroleum Institute, Recommended Practice Standard Procedure for Field Testing Water-Based Drilling Fluids, API Recommended Practice 13B-1 (RP 13B-1), First Edition, June 1, 1990, pp. 1-46.

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REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Patentee
	IA	5,397,708	03/14/95	Lessard et al.

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Translation Yes No
	IB				

OTHER INFORMATION PROVIDED (AUTHOR, TITLE, DATE, PLACE OF PUBLICATION, PERTINENT PAGES, ETC.)

	IC	Schlumberger Wireline and Testing, Sampling, Houston, Texas, 1996, pp. 10-1 through 10-25.
	ID	Parrillo, D.J. et al., Separation of Bulk Hydrogen Sulfide - Hydrogen Mixtures by Selective Surface Flow Membrane, AIChE Journal, Sept. 1997, Vol. 43, No. 9, pp. 2239-2245.
	IE	Yashin, A. Ya et al., Simultaneous Determination of Sulfide, Iodide, And Rhodanide by Ion Chromatography with the Use of an Amperometric Detector, Journal of Analytical Chemistry, Vol. 53, No. 4, 1998, pp. 344-346.
	IF	Feng, Guo-Xiang et al., Solubility of H ₂ S in n-Dodecane, Fluid Phase Equilibria, 87, 1993, pp. 341-346.
	IG	Feng, Guo-Xiang et al., Solubility of H ₂ S in n-Hexadecane at Elevated Pressure, Canadian Journal of Chemical Engineering, Volume 71, April 1993, pp. 327-328.
	IH	Yokoyama, Chiaki et al., Solubility of Hydrogen Sulfide in Isooctane, n-decane, n-tridecane, n-hexadecane and squalane at Temperatures From 323 to 523 K and Pressures Up to 1.6 Mpa, Fluid Phase Equilibria, 85, 1993, pp. 257-269.
	II	Feng, Guo-Xiang et al., Solubility of Hydrogen Sulfide in n-Eicosane at Elevated Pressure, J. Chem. Eng. Data, 1992, 37, pp. 412-413.

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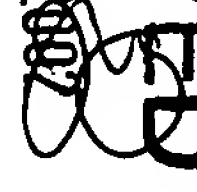


REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

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	JA	5,351,532	10/04/94	Hager

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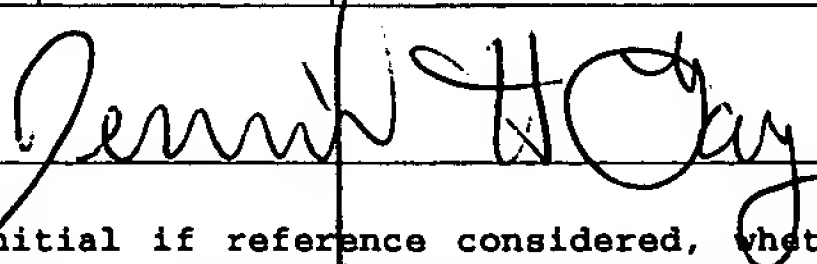
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	JB					

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	JC	Suleimenov, O.M. et al., Solubility of Hydrogen Sulfide in Pure Water and in NaCl Solutions, From 20 to 320°C and at Saturation Pressures, Geochmica et Cosmochimica Acta, Vol. 58, No. 11, pp. 2433-2444.
	JD	Tremper, Kevin K. et al., Solubility of Inorganic Gases in High-Boiling Hydrocarbon Solvents, Journal of Chemical and Engineering Data, Vol. 21, No. 3, 1976, pp. 295-299.
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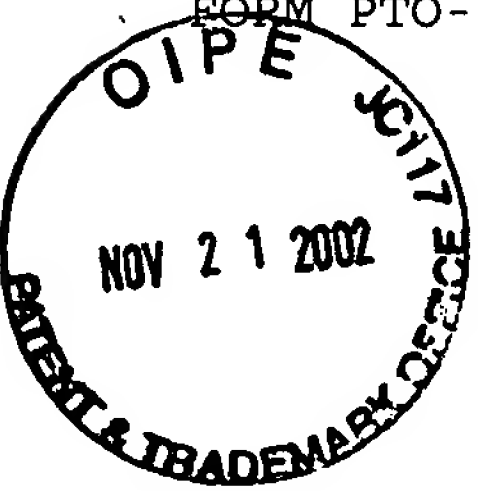
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APPLICANT:
Andrew Kurkjian et al.FILING DATE:
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REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Patentee
	KA	5,337,822	08/16/94
			Massie et al.

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KB			

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REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Patentee
<i>JO</i>	LA	5,303,775	04/19/94	Michaels et al.

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<i>JO</i>	LC	Scott, P.J.B. et al., Souring of New Irian Jaya Wells Traced to Indigenous Bacteria, Oil & Gas Journal, June 14, 1993, pp. 47-50.
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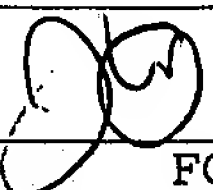
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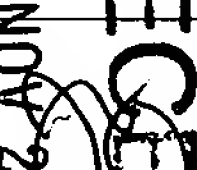



REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Patentee
	MA	5,329,811	07/19/94	Schultz et al.

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REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Patentee
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	NT	Phillips, B.M., Measurement and Distribution of Interstitial and Overlying Water Ammonia and Hydrogen Sulfide in Sediment Toxicity Tests, Marine Environmental Research, Vol. 44, No. 2, 1997, pp. 117-126.
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